**CMSC 2233**

**Data Structures**

**Program Assignment 2 – Maze**

**Points: 40**

**Assignment**

* Create a droid class that can run a maze.
* Output:
  + Output the maze as known by the maze
  + Output the maze as known by the droid and the path through the maze.
* Optional: Create GUI interface (see sample below) that displays the maze as the droid searches for the end from the perspective of what the droid knows about the maze. (optional but more fun)

**Turn In:**

* Demo to instructor

**Notes :**

1. Use the provided jar file with the Maze Class and Coordinate Class.
2. Use a stack as the data structure for the algorithm to find the path through the maze.
3. Use the pubic Maze Class methods to

* Create a maze
* Have the droid enter the maze
* Have the droid move in the maze, scan the maze, move through portals and find the end of the maze
* Print out the maze (as know by the droid) with the path

**Output**

* Print out the maze (as known by the droid) with the path found by the droid from start to finish
* Print out the maze (as known by the maze)

